# PART 1 GENERAL

## 1.01 SUMMARY

A. Section Includes: Glazed Aluminum Curtain Wall:
   1. American Products, Inc. (813.925.0144) Series CW1000 outside Glazed Aluminum Curtain Wall System.
B. Services Furnished:
   1. Materials by API
C. Related Sections:
   1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
   2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.

## 1.02 REFERENCES

A. Abbreviations
   1. AAMA – American Architectural Manufacturers Association
   2. ASTM – American Society for Testing and Materials
   3. SSG – Structurally Glazed

## 1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination
B. Pre-installation Meetings
C. Sequencing
D. Scheduling

## 1.04 SUBMITTALS

A. Per Division 1, Product Information, Samples, Shop Drawings According to Conditions of Contract

## 1.05 ACTION SUBMITTALLS

A. Product Data
B. Shop Drawings
   1. By Others
C. Samples
   1. Samples will be Provided as Required
D. Certificates
E. Delegated Design Submittals
F. Test & Evaluation Reports
   1. Provided Upon Request
G. Manufacturer's Instructions
   1. Per API's Installation Manual
H. Source Quality Control Submittals
I. Field/Site Quality Control Submittals
J. Manufacturer Reports
K. Sustainable Design Submittals
L. Special Procedure Submittals
M. Qualification Statements



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### 1.06 CLOSEOUT SUBMITTALS

A. Maintenance Contracts
   1. Available Open Request
B. Warranty Documentation
   1. Shall be Project Specific

### 1.07 MAINTENACE MATERIALS SUBMITTALS

A. Spare Parts
B. Extra Stock Materials
C. Tools

### 1.08 QUALITY ASSURANCE

A. Regulatory Agency Sustainability Approvals
B. Qualifications:
   1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
C. Testing Agencies
   1. Optional – To Be Chosen by Manufacturer
D. Pre-Installation Meetings:
   1. Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

### 1.09 WARRANTY

A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
B. Manufacturer's Warranty
C. Special Warranty

## PART 2 PRODUCTS

### 2.01 SYSTEMS

A. Manufacturer:
   1. American Products Inc.
      12157 West Linebaugh Ave. #335
      Tampa, FL. 33626
      Telephone: (813) 925-0144; Fax: (813) 925-1414
      www.americanprod.com
   2. Curtain Wall System: CW1000 outside glazed Aluminum Curtain Wall System.
B. Product Options
   1. With or without Front Face Cap (Both Options are Available)



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C. Description:
   1. Series CW1000
   2. Framing shall be thermally improved. Horizontal and vertical framing members shall have a nominal face dimension of 2-1/2 inches. Depth as indicated on drawings. Framing system shall provide a flush glazed appearance on all sides with no protruding glass stops.

D. Performance/Design Criteria
   1. Capacities/Tests
      a. Air Infiltration Tested per ASTM E-283-04 at Exterior Face Using a Positive Static Pressure Differential of 6.24 p.s.f. Net Air Infiltration 16.4 cfm.
      b. Static Water Penetration Test per ASTM E-331-00 at 15.0 p.s.f.
      c. Dynamic Water Penetration Test per AAMA 501.1-05 with Dynamic Wind Load Pressure Equivalent of 15.0 psf.
      d. Uniform Structural Deflection Test at Design per ASTM E-330-02. See Installation Manual for Mullion Capacities.
      e. Story Drift – Elastic per AAMA 501.4 – 0.794" in Either Direction Laterally, 0.625" Perpendicular in either Direction
      f. Story Drift – Inelastic per AAMA 501.4 – 2" in Either Direction Laterally, 2" Perpendicular in Either Direction
      g. Thermal Expansion Allowed for Temperature range of 120 Degree F Ambient, 18-Degree F, Material Surface
      h. Insulated Glass Units per ASTM E-1300
      i. Allowable Deflection – See Attachment #1

E. Materials
   1. 6063-R6/6063-T5 Aluminum Complying with ASTM B 221
      Reinforcing Members are to be Stainless Steel, Nickel/Chrome Plated Steel per ASTM B 456, Zinc Coasted Steel, and Iron per ASTM B 663 or 6063-T6 Aluminum per ASTM B 221
   2. Accessories
      a. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.
      b. Exposed Fasteners to be Stainless Steel
      c. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; glazing gaskets in accordance with ASTM C 864.
      d. Sealant: Non-skinning type, AAMA 803.3
   3. Finishes
      a. Powder Coat
      b. Kynar (50% 2-Coat, 70% 3-Coat)
      c. Anodized per AAMA 612



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## PART 3 EXECUTION

### 3.01 EXAMINATION

A. Verification of Conditions
   1. Verify Substrate Conditions
B. Evaluation and Assessment (to be Completed by Installer)
   1. All Substrates and Host Structures Shall be of Adequate Strength for Design Loads
   2. Pull test for Sealants Shall be per Sealant Manufacturer

### 3.02 PREPARATION

A. Surface Protection by Installer
   1. Protect Adjacent Work
   2. Clean All Surfaces and Metal with Appropriate Cleaner

### 3.03 INSTALLATION

1. Shim all Anchor Conditions with Styrene Shims 5000 psi Minimum
2. Provide Proper Weep for Water per Installation Manual
3. All Metal Joints to be Sealed
4. Isolate Dissimilar Materials with Shims or Bituminous Paint
5. Install per Manufacturer's Installation Manual
6. Install Frames Plumb and Level

### 3.04 FIELD QUALITY CONTROL

A. Field Test Available upon Request: Conduct field test to determine water tightness of curtain wall system. Conduct test in accordance with ASTM E 1105.

### 3.05 CLEANING

A. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
B. No Detergents or Chemicals without Prior Approval
C. No Scrapers
D. Use Soft Microfiber Cloths Only.

**END OF SECTION**

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